

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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Attorney Docket No.: 103007.01

Date: May 24, 2001

**BOX PATENT APPLICATION**

Customer Number: 25944

**CONTINUING APPLICATION TRANSMITTAL  
RULE 1.53(b)**

Director of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing under 37 C.F.R. §1.53(b) is a

☒ Continuation ☐ Divisional ☐ Continuation-in-Part

application of prior pending Application No. 09/280,056, filed March 29, 1999,

For (Title): INK CARTRIDGE AND REMAINING INK VOLUME DETECTION METHOD

By (Inventors): Toyonori SASAKI

1. ☒ A Declaration and Power of Attorney is attached. The attached Declaration and Power of Attorney is:
  - ☒ a. A copy of the Declaration and Power of Attorney from the parent application. (Used with the same or fewer inventors and (a) a copy of the prior application or (b) a revised, reformatted or edited version of the prior application that does not contain new matter.)
  - ☐ b. A new Declaration and Power of Attorney. (Used with the same, fewer or additional inventors and (a) a copy of the prior application, (b) a revised, reformatted or edited version of the prior application that does not contain new matter, or (c) a new specification.)
2. ☒ The filing fee is calculated below:

**CLAIMS IN THE APPLICATION AFTER ENTRY OF  
ANY PRELIMINARY AMENDMENT NOTED BELOW**

FOR:	NO. FILED	NO. EXTRA
BASIC FEE		
TOTAL CLAIMS	1 - 20	= *0
INDEP CLAIMS	1 - 3	= *0
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS PRESENTED		

\* If the difference is less than zero, enter "0".

**SMALL ENTITY**

RATE	FEE
	\$ 355
x 9 =	\$
x 40 =	\$
+135 =	\$
TOTAL	\$

**OTHER THAN A  
SMALL ENTITY**

RATE	FEE
	\$ 710
x 18	\$-----
x 80	\$-----
+270	\$-----
TOTAL	\$710

3. ☒ Check No. 118221 in the amount of \$710 to cover the filing fee is attached. The Director is hereby authorized to charge any other fees that may be required to complete this filing, or to credit any overpayment, to Deposit Account No. 15-0461. Two duplicate copies of this sheet are attached.
4. ☒ Cancel claims 2-4 of the application before calculating the filing fee. At least one independent claim is retained for filing purposes.

**DEPOSIT ACCOUNT USE  
AUTHORIZATION**

Please grant any extension  
necessary for entry;  
Charge any fee due to our  
Deposit Account No. 15-0461


21A  
7/17/01  
M. Pridgen

5. ☒ Amend the specification by inserting before the first line the sentence:  
--This is a Continuation of Application No. 09/280,056 filed March 29, 1999. The entire disclosure of the prior applications is hereby incorporated by reference herein in its entirety.--
6. ☒ Formal drawings (Figs. 1-20) are attached.  
☐ Use Figure \_\_\_\_\_ for front page of Publication.
7. ☒ Priority of foreign applications No. 10-084037 filed March 30, 1998 in Japan, No. 10-094772 filed April 7, 1998 in Japan, No. 10-094773 filed April 7, 1998 in Japan, No. 10-094774 filed April 7, 1998 in Japan, No. 10-094775 filed April 7, 1998 in Japan, No. 10-094776 filed April 7, 1998 in Japan, No. 10-094777 filed April 7, 1998 in Japan, No. 10-094778 filed April 7, 1998 in Japan, No. 10-146993 filed May 28, 1998 in Japan, No. 10-166920 filed June 15, 1998 in Japan, No. 11-028320 filed February 5, 1999 in Japan, and No. 11-87187 filed March 29, 1999 in Japan are claimed under 35 U.S.C. §119 and/or §365(b).  
☒ The certified copies, other than 11-87187, were filed in prior Application No. 09/280,056 on March 29, 1999. The certified copy of 11-87187 was filed in prior Application No. 09/280,056 on April 16, 2001.  
☐ A certified copy of the above foreign application(s) is filed herewith.
8. ☐ Priority of U.S. Provisional Application(s) No. \_\_\_\_\_ filed \_\_\_\_\_ is claimed under 35 U.S.C. §119.  
☐ Amend the specification by inserting before the first line the sentence:  
--This nonprovisional application claims the benefit of U.S. Provisional Application(s) No. \_\_\_\_\_ filed \_\_\_\_\_.--
9. ☒ The prior application is assigned of record to Brother Kogyo Kabushiki Kaisha recorded at Reel 9863, Frame 0036.
10. ☐ This application is filed by fewer than all the inventors named in the prior application (37 C.F.R. §1.53(b)(1)). Delete the following inventor(s) named in the prior application:  
\_\_\_\_\_  
\_\_\_\_\_
11. ☒ A Preliminary Amendment is attached. Claims added by this Amendment are properly numbered consecutively beginning with the number next following the highest numbered claim in the application.
12. ☒ An Information Disclosure Statement is attached.
13. ☐ Small entity status:  
☐ a. Entitlement to small entity status is asserted.  
☐ b. Small entity status is no longer claimed.
14. ☒ Other: Letter to the Official Draftsperson
15. ☐ This application is NOT to be published under 35 U.S.C. 112(b). The undersigned attorney or agent hereby certifies that the invention disclosed in this application has not been and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.
16. ☒ The power of attorney in the application is to James A. Oliff, Registration No. 27,075, William P. Berridge, Registration No. 30,024, Kirk M. Hudson, Registration No. 27,562, Thomas J. Pardini, Registration No. 30,411, Edward P. Walker, Registration No. 31,450, Robert A. Miller, Registration No. 32,771, Mario A. Costantino, Registration No. 33,565, Stephen J. Roe, Registration No. 34,463, Joel S. Armstrong, Registration No. 36,430, Christopher W. Brown, Registration No. 38,025, and/or Richard E. Rice, Registration No. 31,560.  
☒ a. The power appears in the attached Declaration and Power of Attorney.  
☐ b. Since the power does not appear in the attached Declaration and Power of Attorney, a substitute Power of Attorney is also attached.

17. ☒ Address all future communications to:

**OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, Virginia 22320**

Respectfully submitted,

  
James A. Oliff  
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JAO:SMS/sxb